

Figure 1. Injection Well 373-35R, CO<sub>2</sub> Injection Schematic

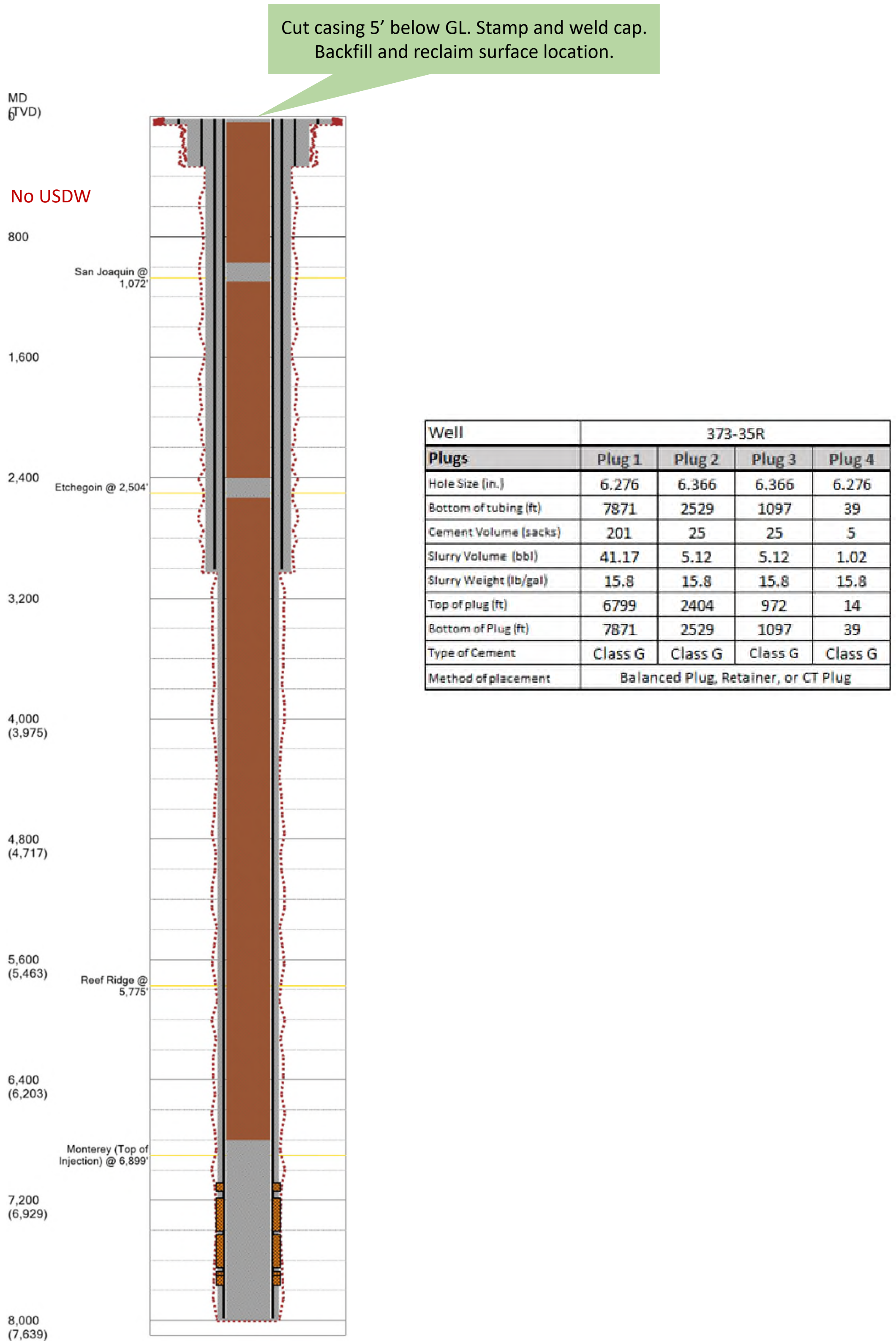


Figure 2. Injection Well 373-35R, Abandonment Schematic

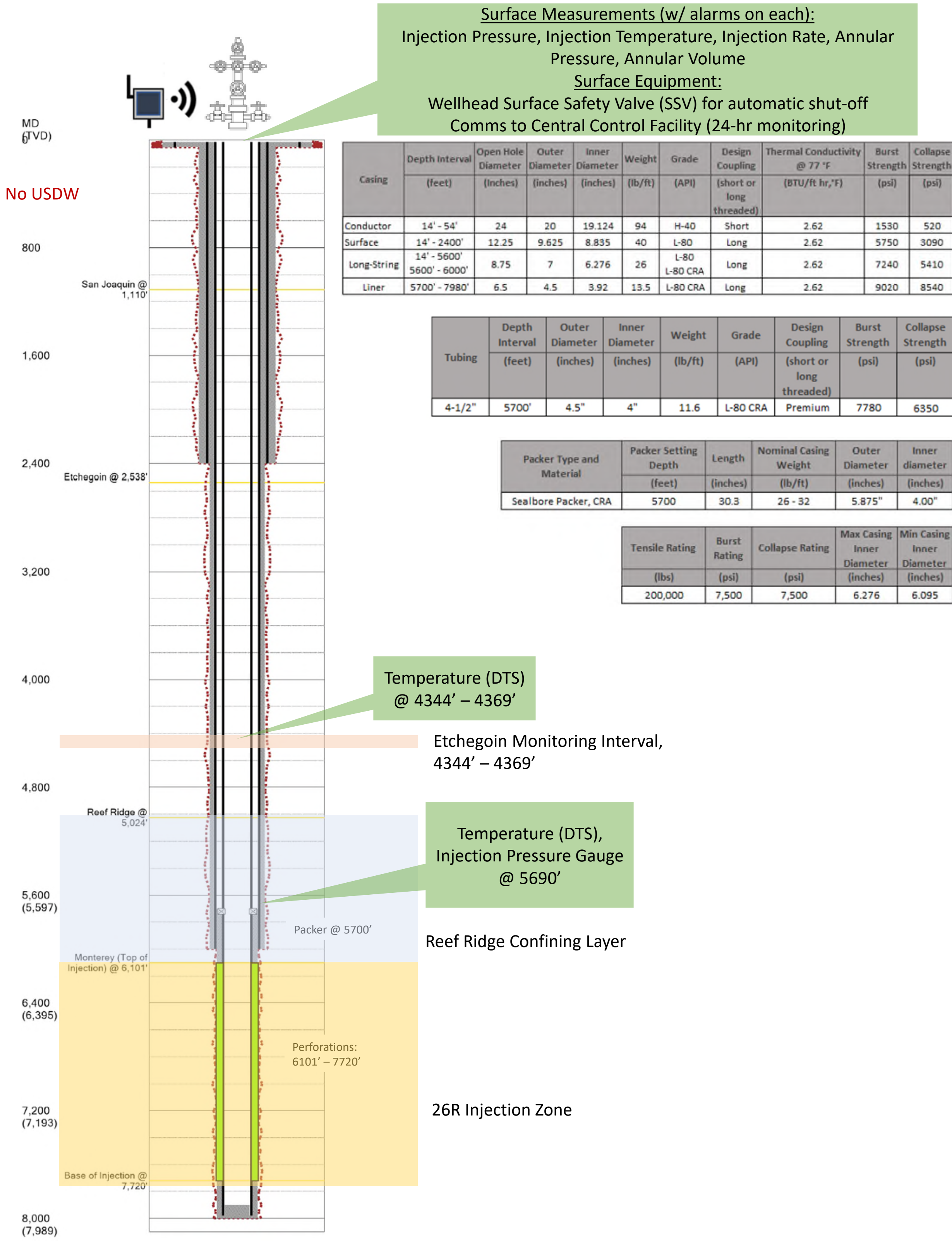
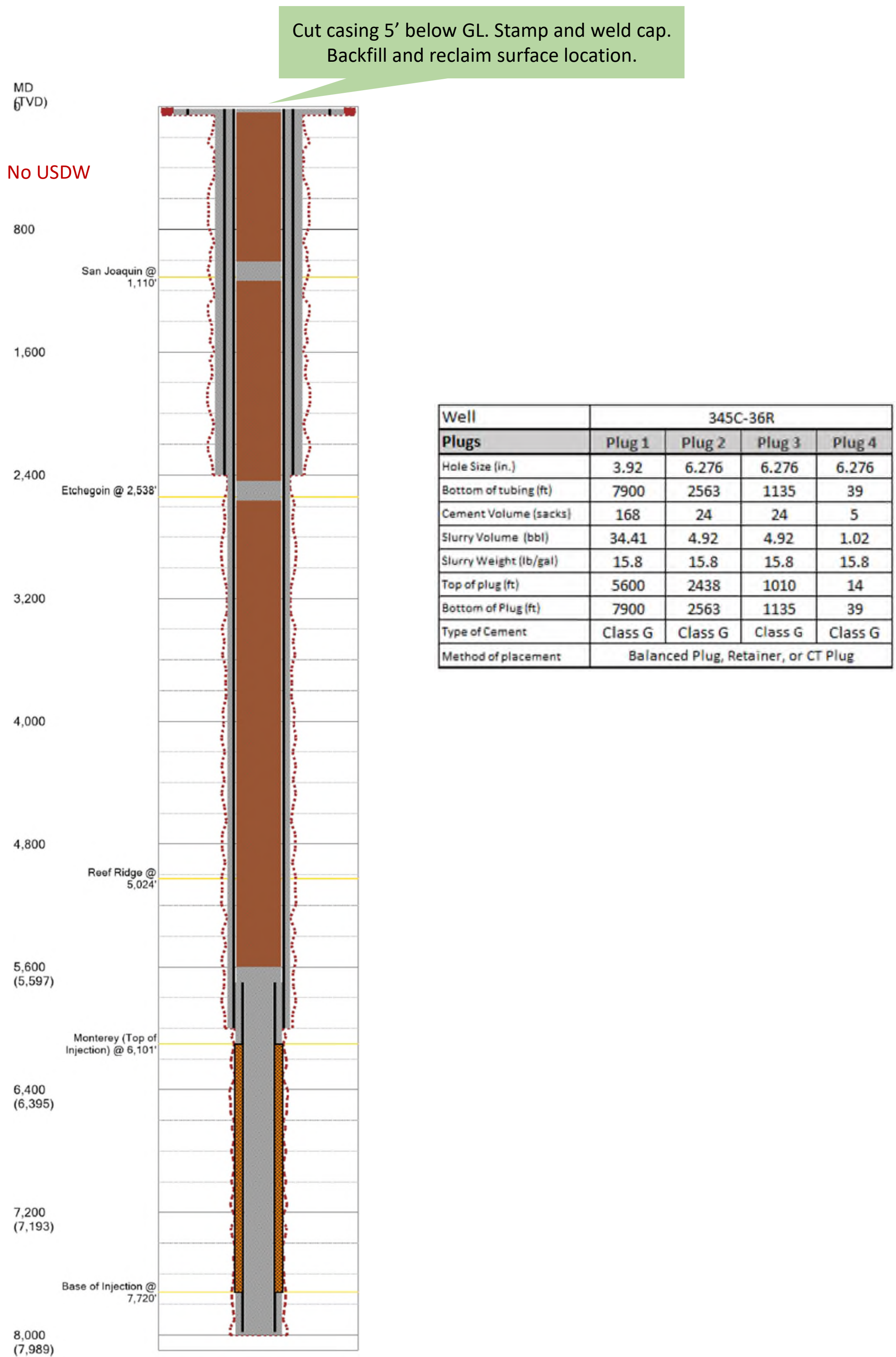
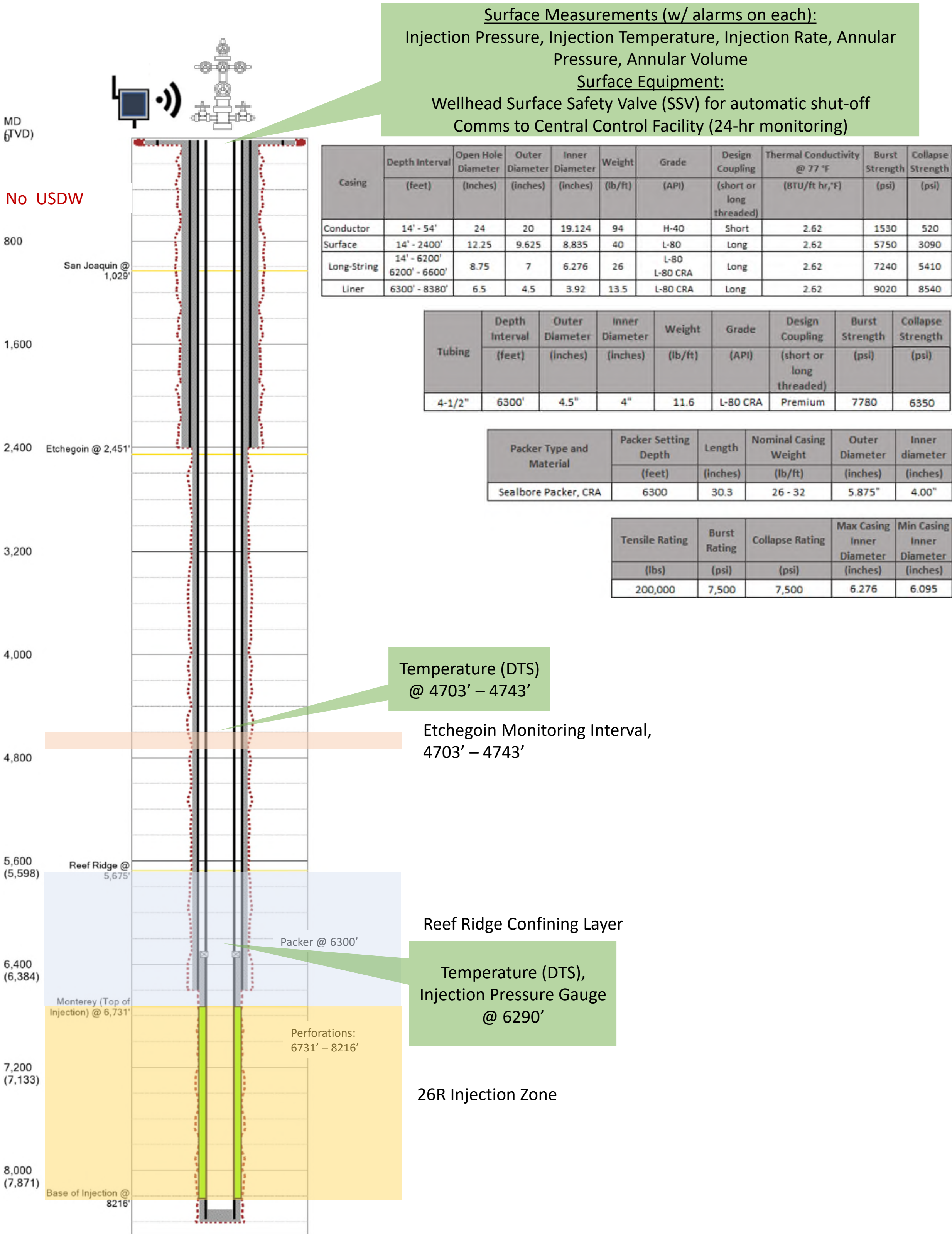
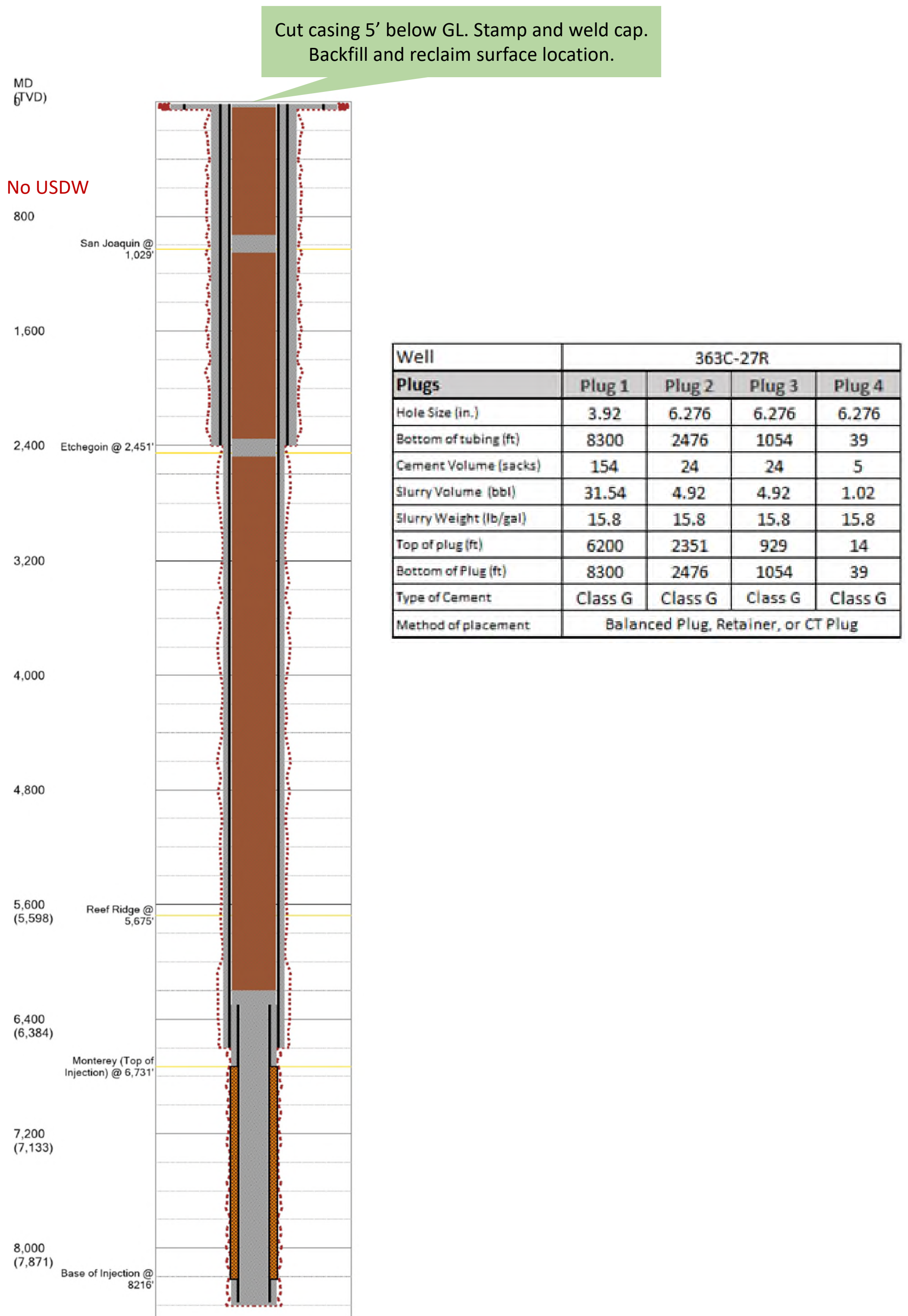


Figure 3. Injection Well 345C-36R, CO<sub>2</sub> Injection Schematic



**Figure 4. Injection Well 345C-36R, Abandonment Schematic**

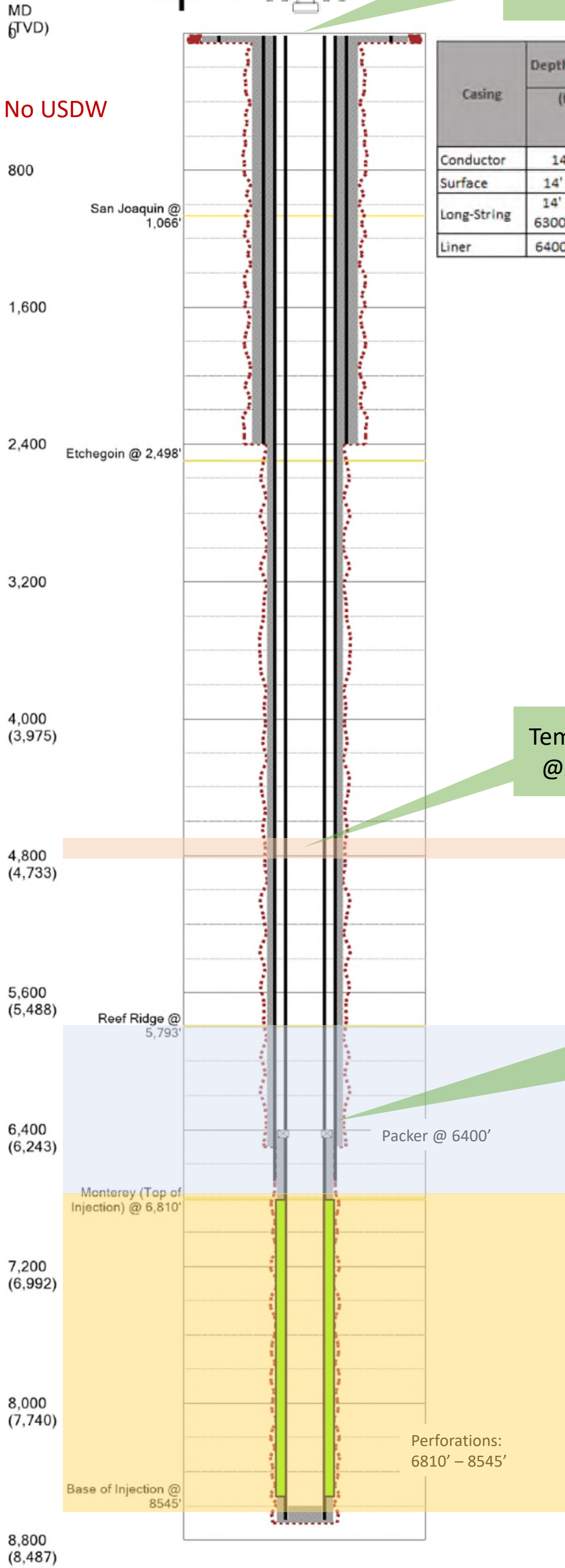




**Figure 6. Injection Well 363C-27R, Abandonment Schematic**

Surface Measurements (w/ alarms on each):  
Injection Pressure, Injection Temperature, Injection Rate, Annular Pressure, Annular Volume

Surface Equipment:  
Wellhead Surface Safety Valve (SSV) for automatic shut-off  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr,°F)	(psi)	(psi)
Conductor	14' - 54'	24	20	19.124	94	H-40	Short	2.62	1530	520
Surface	14' - 2400'	12.25	9.625	8.835	40	L-80	Long	2.62	5750	3090
Long-String	14' - 6300'	8.75	7	6.276	26	L-80	Long	2.62	7240	5410
Liner	6300' - 6700'					L-80 CRA				
Liner	6400' - 8680'	6.5	4.5	3.92	13.5	L-80 CRA	Long	2.62	9020	8540

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)
4-1/2"	6400'	4.5"	4"	11.6	L-80 CRA	Premium	7780	6350

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Sealbore Packer, CRA	6400	30.3	26 - 32	5.875"	4.00"

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner Diameter
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.276	6.095

Temperature (DTS)  
@ 4782' – 4810'

Etchegoin Monitoring Interval,  
4782' – 4810'

Temperature (DTS),  
Injection Pressure Gauge  
@ 6390'

Reef Ridge Confining Layer

Figure 7. Injection Well 353XC-35R, CO<sub>2</sub> Injection Schematic

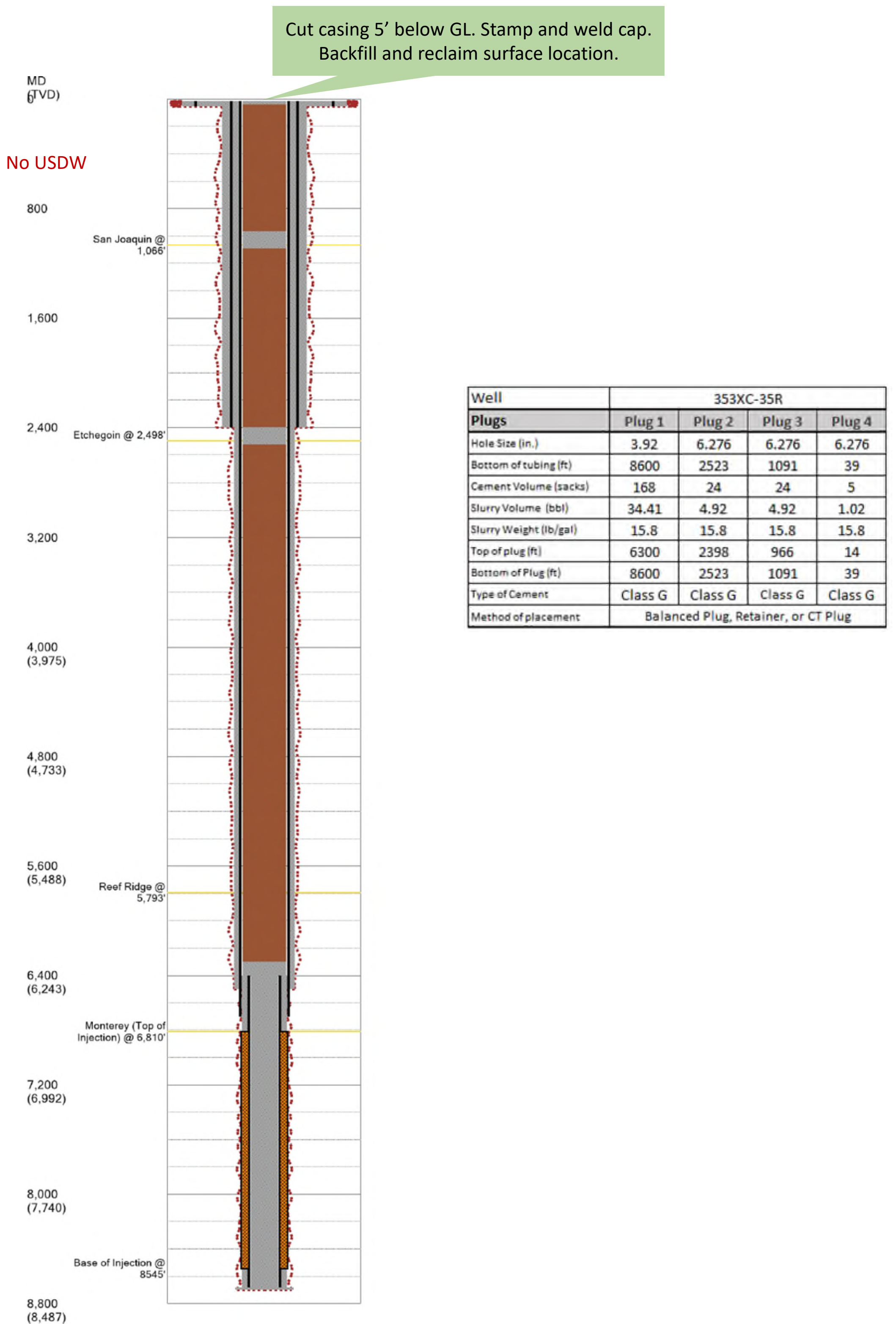
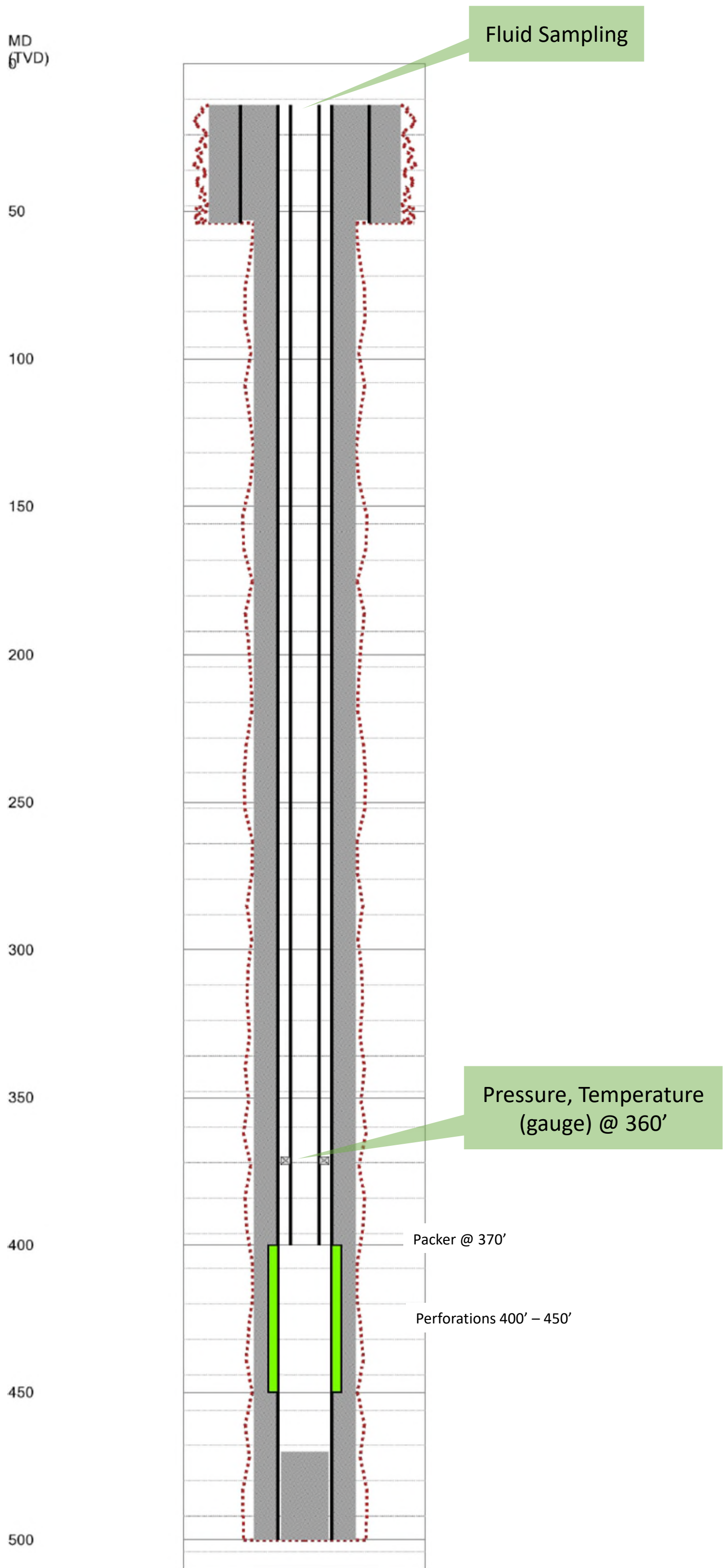
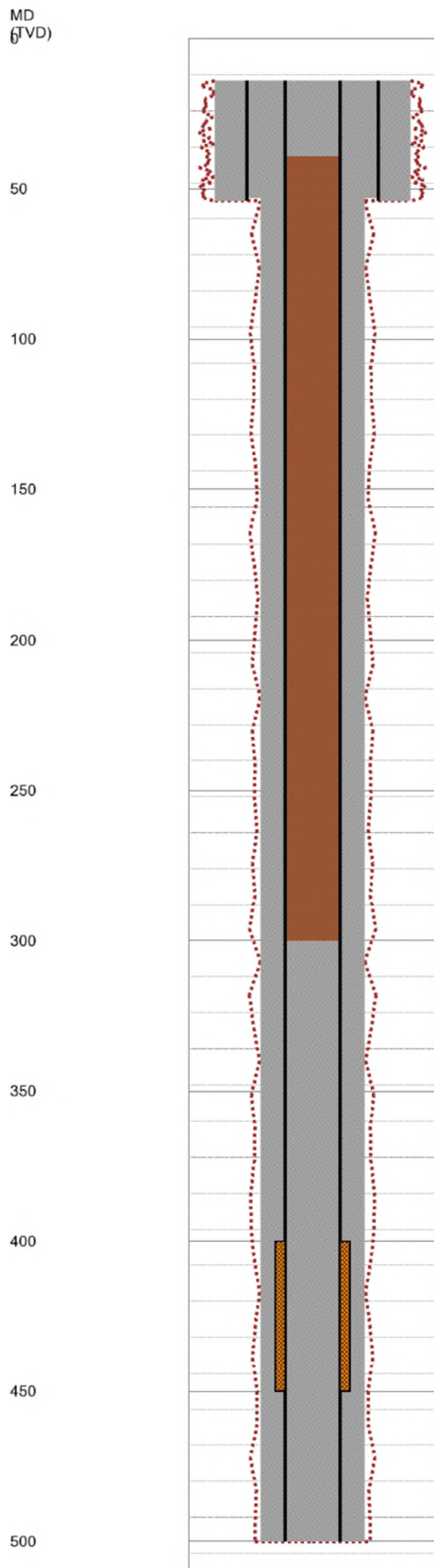


Figure 8. Injection Well 353XC-35R, Abandonment Schematic



**Figure 9. Shallow Monitoring Well – Proposed Monitoring Schematic**



Well	Shallow MW	
Plugs	Plug 1	Plug 2
Diameter of boring in which plug will be placed (in.)	4"	4"
Depth to bottom of tubing or drill pipe (ft)	475'	39'
Sacks of Cement to be used (each plug)	17	2
Slurry Volume to be pumped (bbl)	2.72	0.39
Slurry Weight (lb/gal)	15.8	15.8
Calculated top of plug (ft)	300'	14'
Bottom of Plug (ft)	475'	39'
Type of Cement or other material	Portland	
Method of placement (e.g., balance method, retainer method, or two-plug method)	Balanced Plug, Retainer, or CT Plug	

Figure 10. Shallow Monitoring Well – Proposed Abandonment Schematic

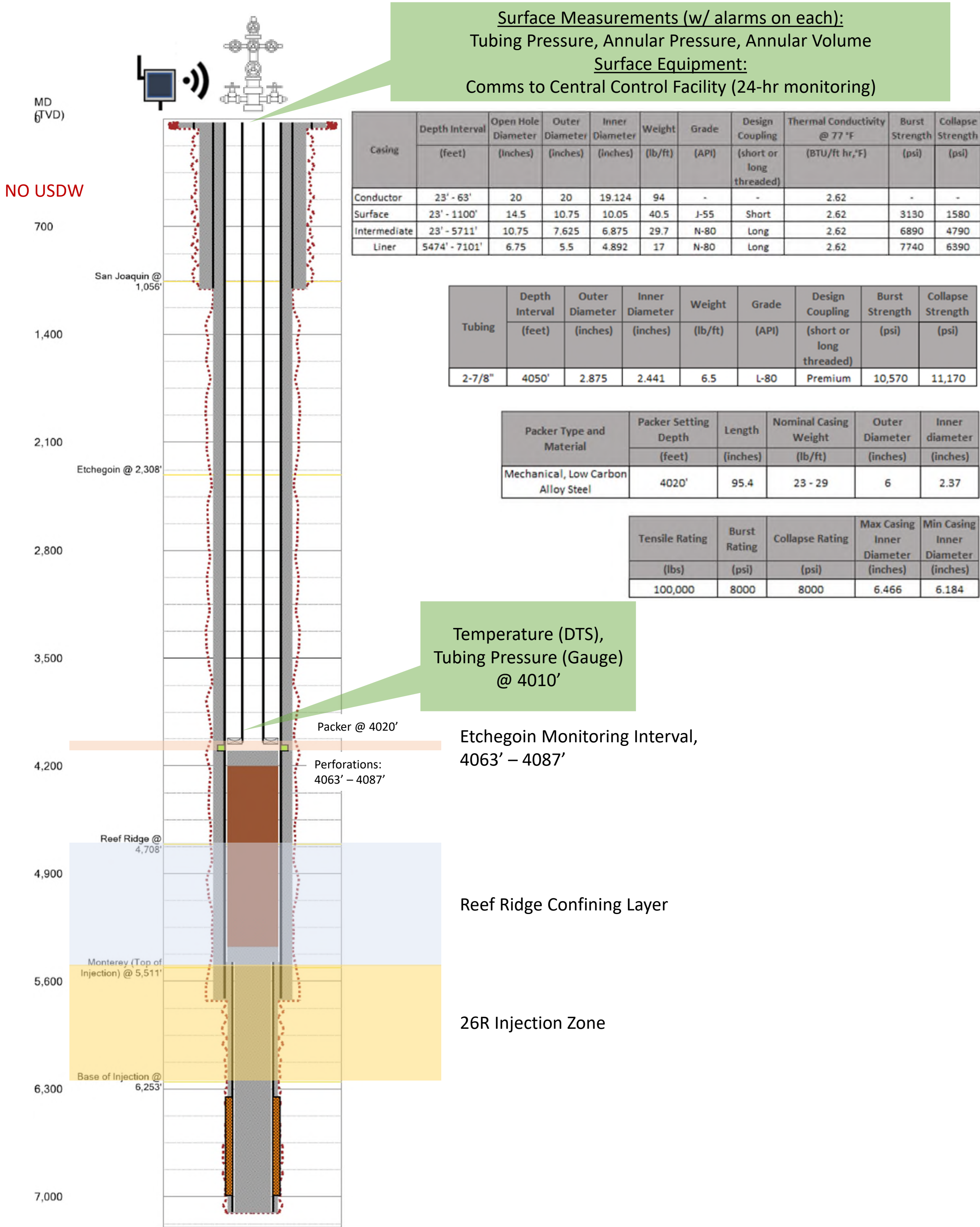
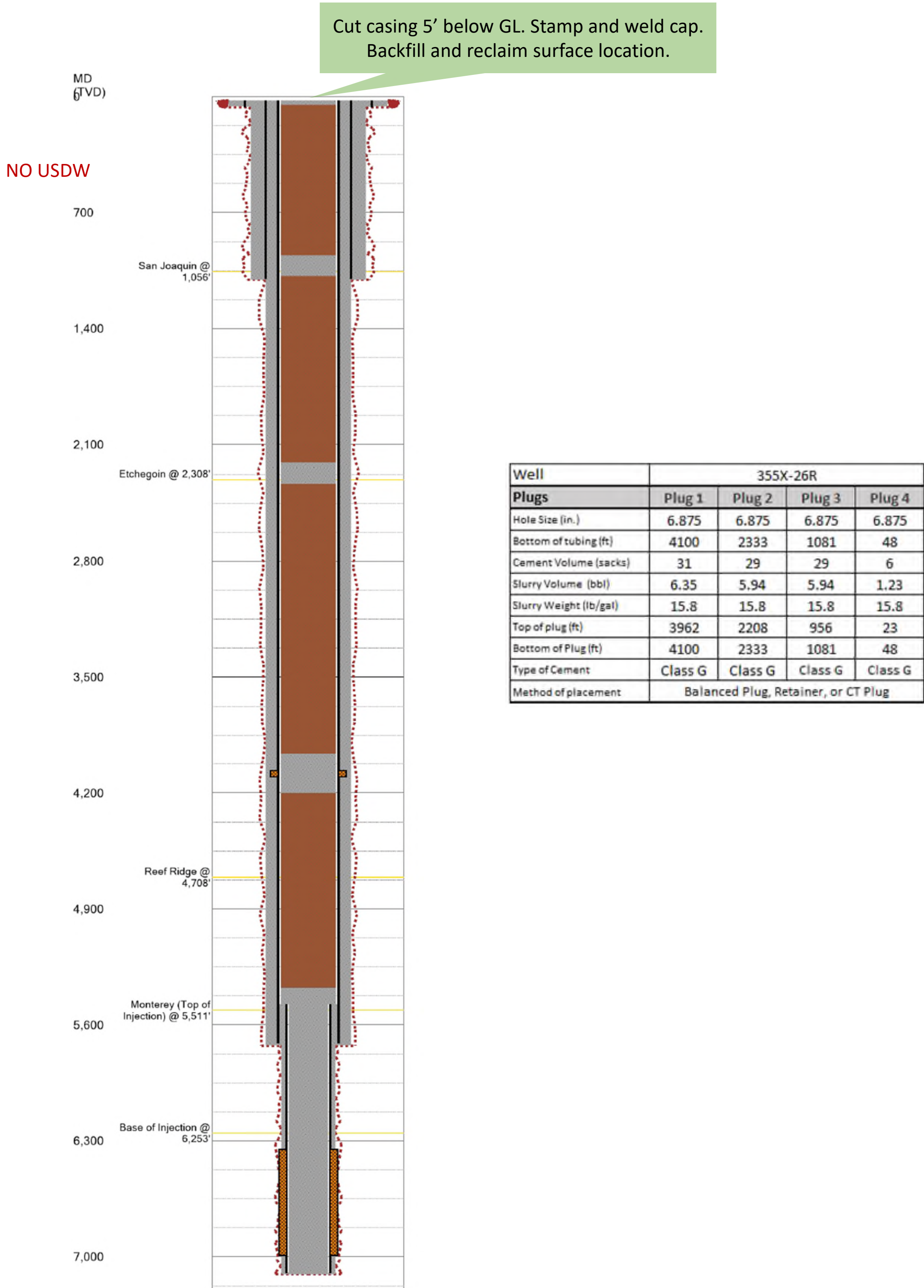
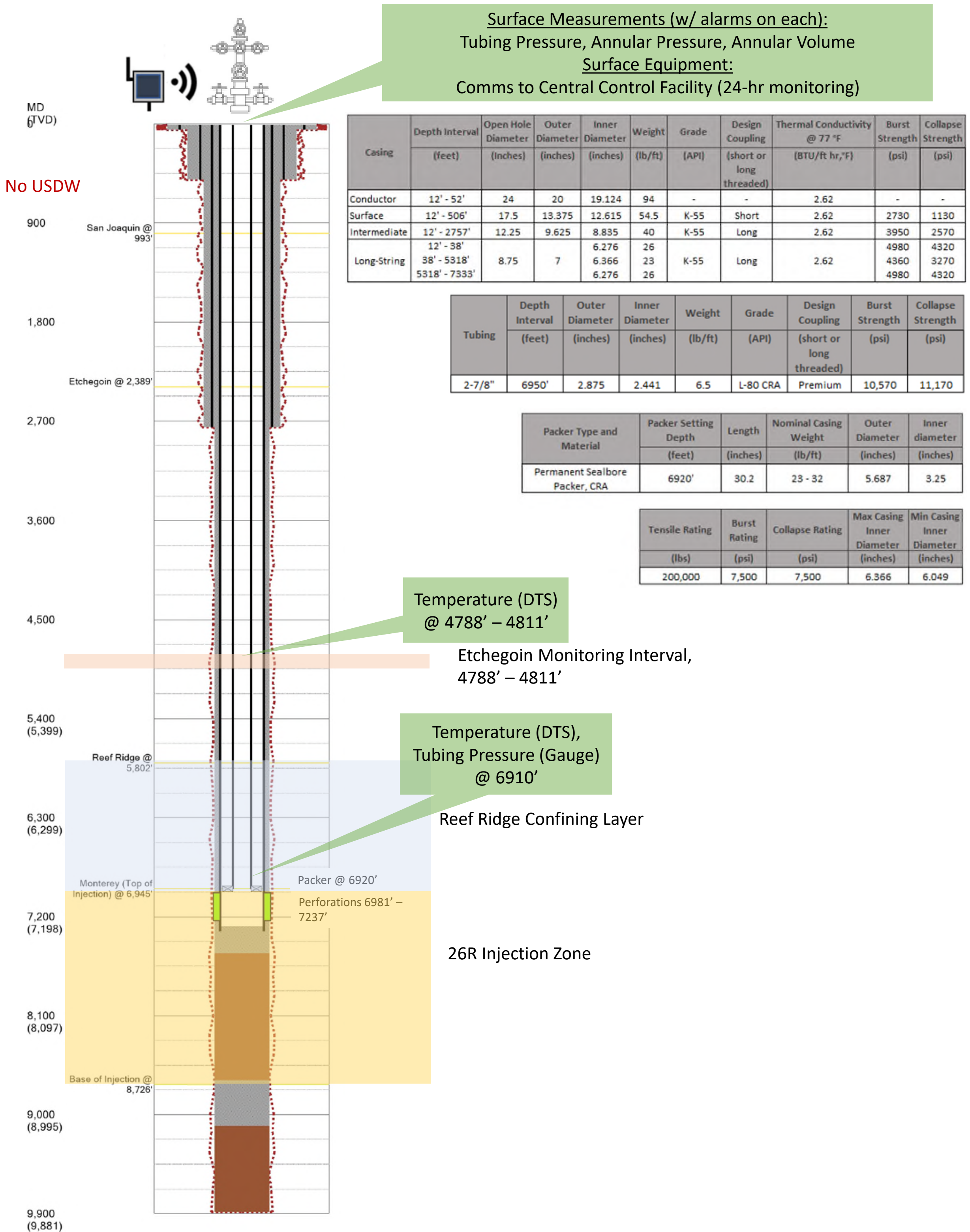


Figure 11. Etchegoin Monitoring Well 355X-26R, Monitoring Schematic



**Figure 12. Etchegoin Monitoring Well 355X-26R, Abandonment Schematic**



**Figure 13. 26R Monitoring Well 341-27R, Monitoring Schematic**

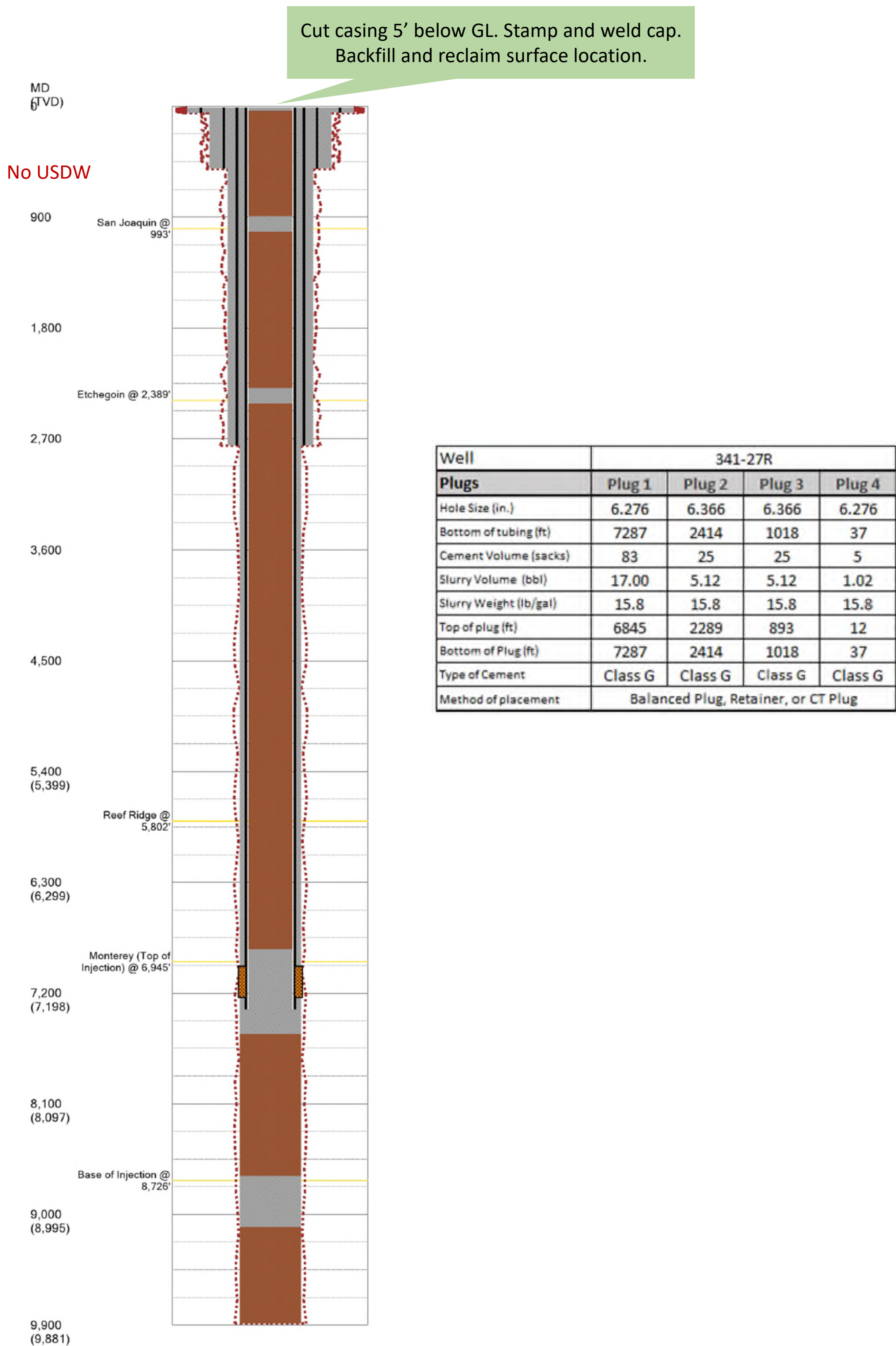


Figure 14. 26R Monitoring Well 341-27R, Abandonment Schematic

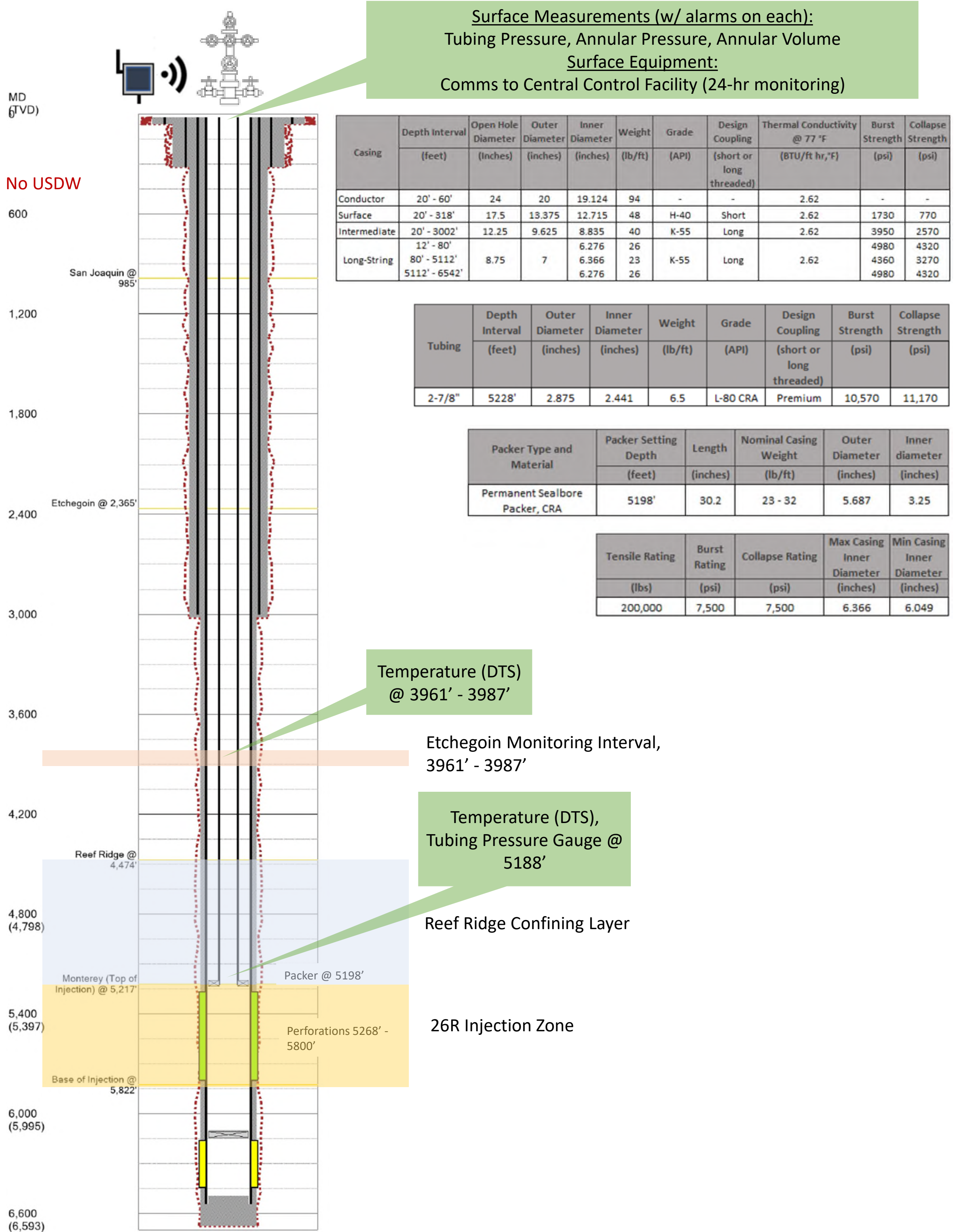


Figure 15. 26R Monitoring Well 328-25R, Monitoring Schematic

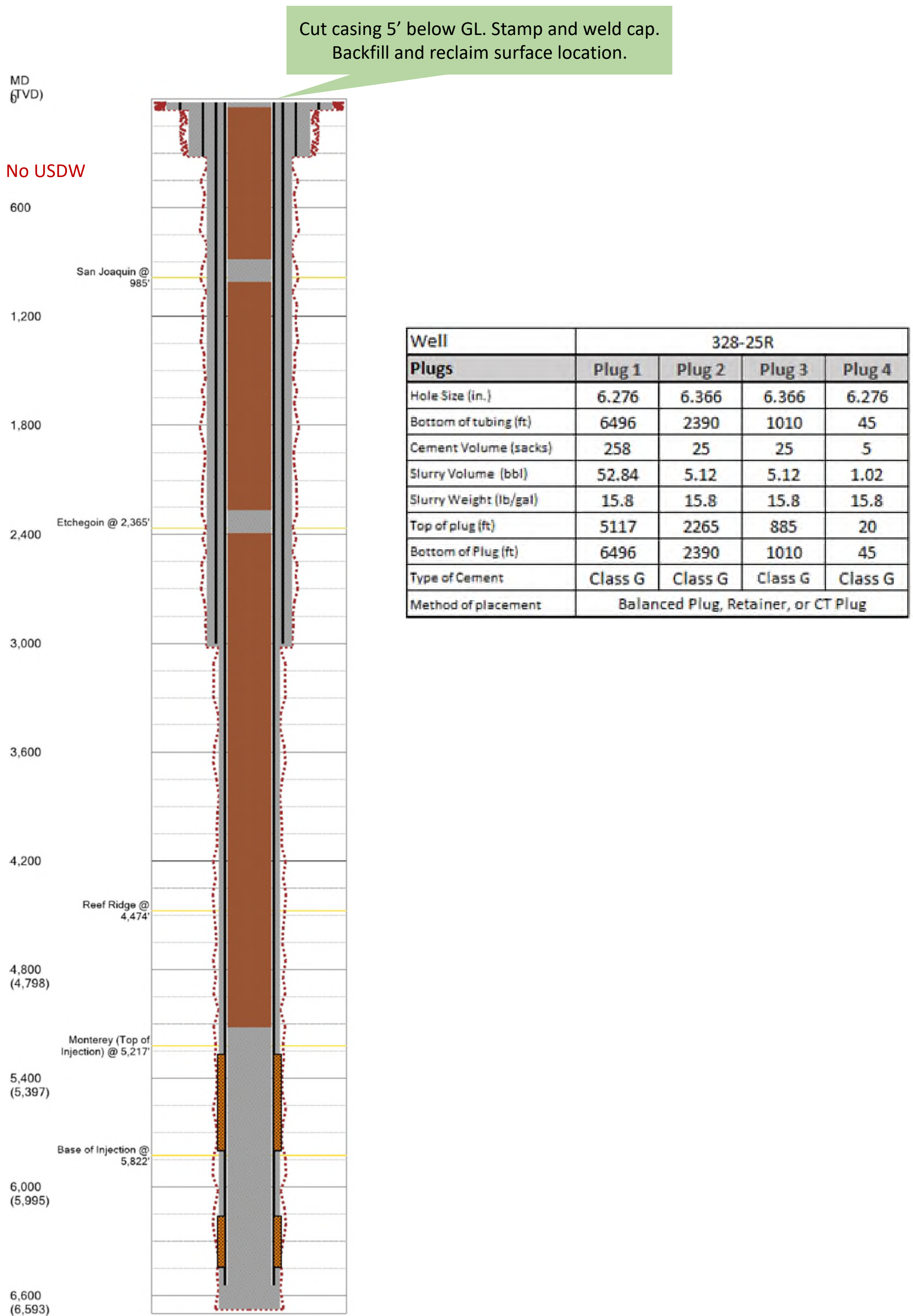
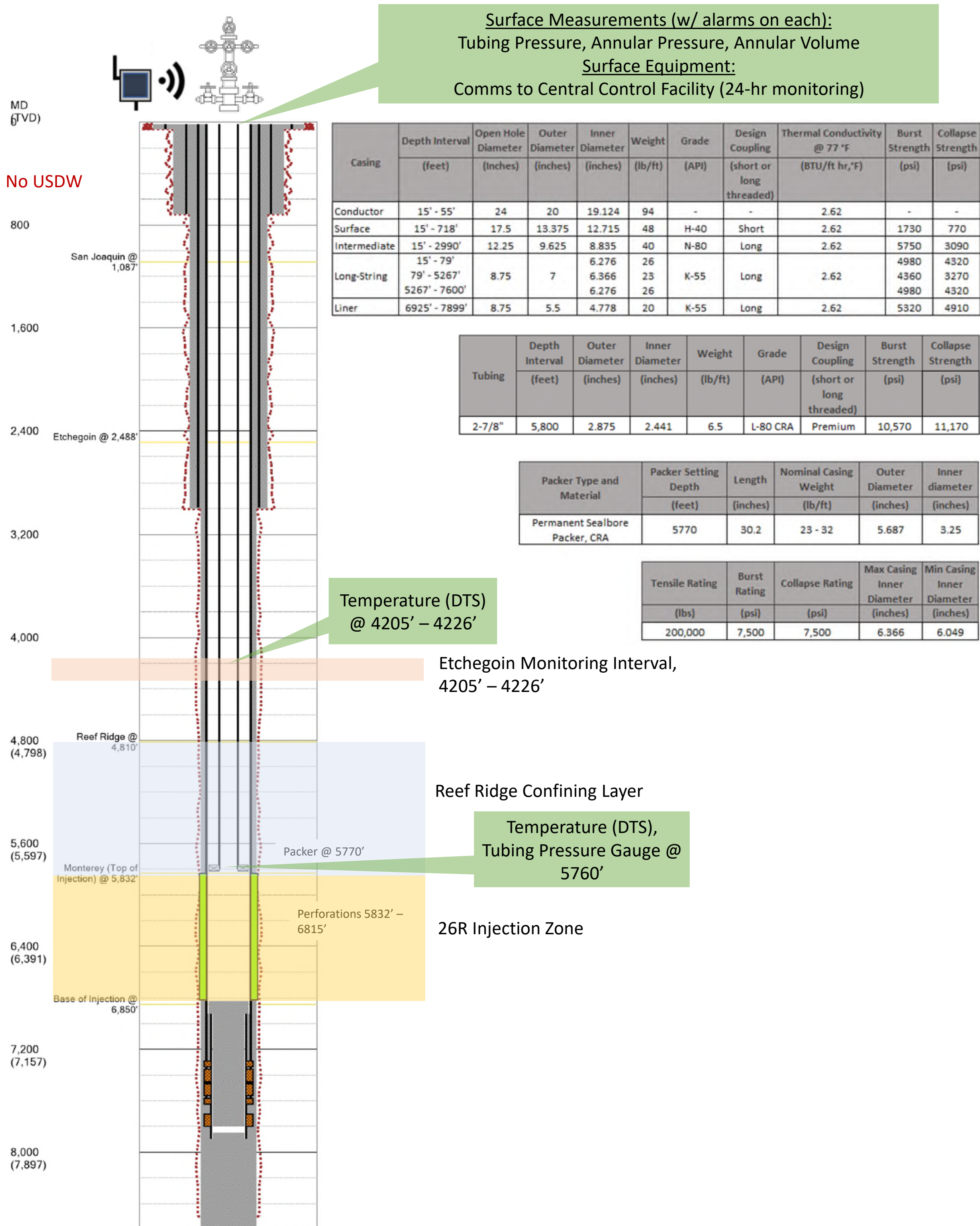


Figure 16. 26R Monitoring Well 328-25R, Abandonment Schematic



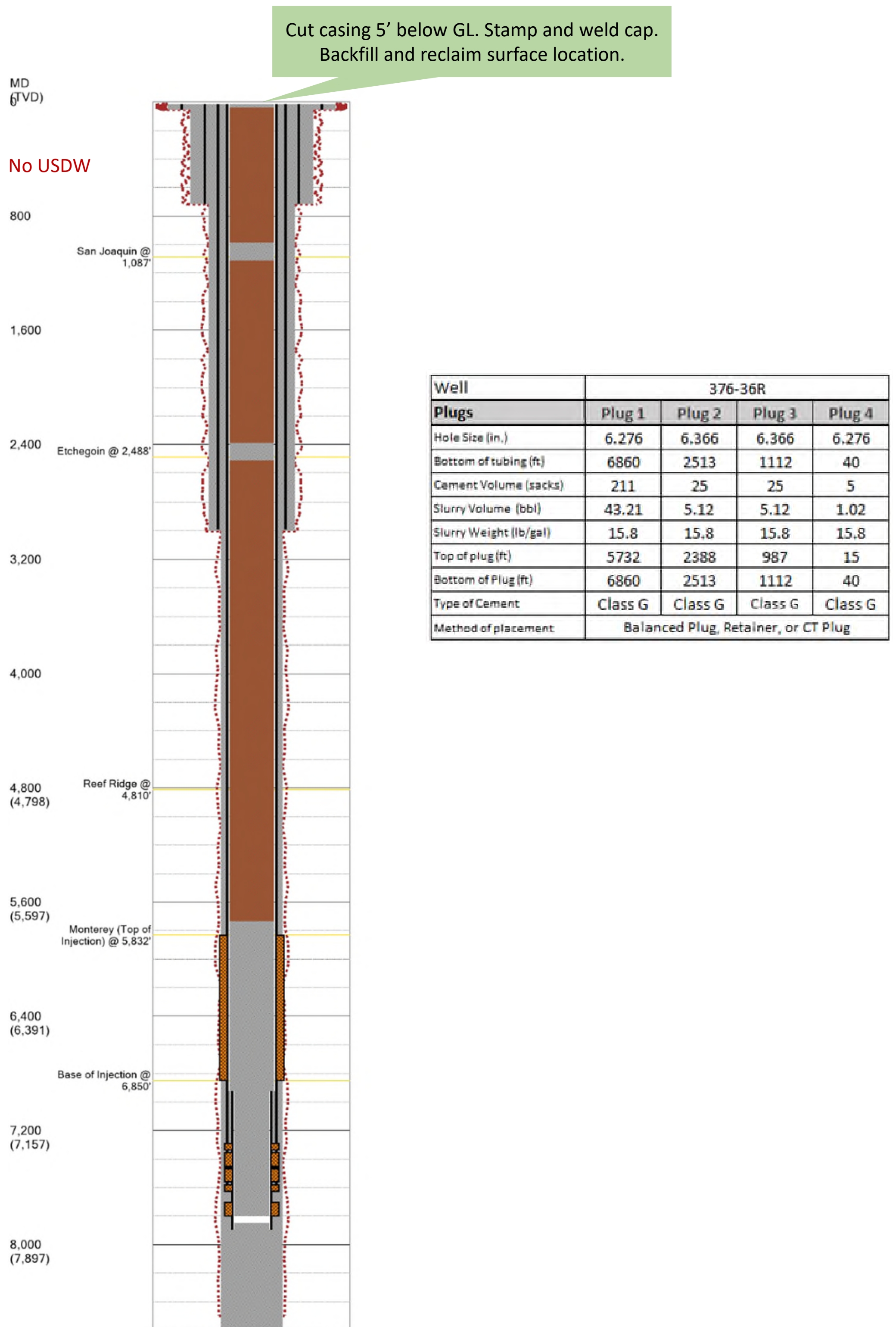


Figure 18. 26R Monitoring Well 376-36R, Abandonment Schematic